



PATENT ABSTRACTS OF JAPAN

(11) Publication number: 11167001 A

(43) Date of publication of application: 22 . 06 . 99

(51) Int. Cl.

G02B 1/10
B60S 1/02
C03C 17/06
C23C 18/50
G02B 3/06
G02B 3/08
G02B 5/08

(21) Application number: 09334012

(22) Date of filing: 04 . 12 . 97

(71) Applicant: CANON INC

(72) Inventor: NAKAI YASUYUKI
TOMARI YOSHIAKI

(54) OPTICAL PARTS HAVING ANTIFOGGING FUNCTION

generated heat.

COPYRIGHT: (C)1999,JPO

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain transparent optical parts having an antifogging function by providing the surface of a transparent optical substrate with a heating element consisting of an electroless plating film and utilizing the heat generated when electric power is thrown to the heating element.

SOLUTION: The surface of an optical glass lens 1 is subjected to ultrasonic cleaning by using a water-soluble degreasing agent, then to strong acid cleaning and strong alkaline cleaning and is further subjected to washing with pure water. A resist film 2 is formed on the optical effective surface of the lens 1 and is again subjected to acid and alkaline cleaning, then to washing with the pure water. The catalyst nucleus impartation of Pd is executed by a sensitizer activator method and a 'Teflon(R)' jig 3 is press bonded to the resin coating part. The electroless Pd-P plating film 4 is formed on the glass substrate subjected to the Pd catalytic nucleus impartation. The resist film 2 is thereafter peeled. A prescribed voltage and current are applied to the Pd-P plating film 4 part and the fogging condensed onto the lens 1 is removed by the thus

